PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY SEC'D 17 JAN 2006

(Chapter II of the Patent Cooperation Treaty)

(PCT Artcle 36 and Rule 70)

İ	
WIPO	מייז
I A A II. O	PCT

Applicant's or agent's file reference 04FREF040PC	FOR FURTHER ACT	TION	See Form PCT/IPEA/41	6	
International application No. PCT/KR2004/003075	International filing date(date) 26 NOVEMBER 20				
International Patent Classification (IPC) or national classification and IPC IPC7 F25D 25/00					
Applicant LG ELECTRONICS INC. et al					
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. This REPORT consists of a total of					
and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). Sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. Sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4. This report contains indications relating to the following items: Box No. I Basis of the report Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application					
Date of submission of the demand 30 MAY 2005 (30	.05.2005)	Date of completion of 20 DECEMB	this report ER 2005 (20.12.2005)		
Name and mailing address of the IPEA. Korean Intellectual Propert 920 Dunsan-dong, Seo-gu, Republic of Korea	y Office	Authorized officer KIM, Eun Rae		(RR2)	

Telephone No. 82-42-481-5518

Facsimile No. 82-42-472-7140

International application No. PCT/KR2004/003075

Box No. 1 Basis of the re	port
otherwise indicated und This report is base which is the lang internation publication	guage, this report is based on the international application in the language in which it was filed, unless der this item. sed on translations from the original language into the following language
to the receiving Office in annexed to this report):	ents of the international application, this report is based on (replacement sheets which have been furnished in response to an invitation under Article 14 are referred to in this reort as "originally filed" and are not opplication as originally filed/furnished
the description: pages pages* pages*	as originally filed/furnished received by this Authority on received by this Authority on
	as originally filed/furnished as amended (together with any statment) under Article 19 received by this Authority on received by this Authority on
pages*pages*	as originally filed/furnished received by this Authority on received by this Authority on g and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
the descrip the claims, the drawin the sequen	s have resulted in the cancellation of: ption, pages
made, since they (Rule 70.2(c)). the descript the claims, the drawing the sequence	ten established as if (some of) the amendments annexed to this report and listed below had not been have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box tion, pages Nos. gs, sheets te listing (specify): related to sequence listing (specify):
* If item 4 applies, some o	r all of those sheets may be marked "superseded."

International application No. PCT/KR2004/003075

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	1 - 40	YES
	Claims		NO
Inventive step (IS)	Claims	2, 4-20, 22-32, 35, 36, 39, 40	YES
	Claims	1, 3, 21, 33, 34, 37, 38	NO
Industrial applicability (IA)	Claims	1 - 40	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

D1: KR 2000-0014608 A D2: KR 2000-0002573 U D3: KR 2000-0007929 A D4: US 4,739,629 A D5: US 6,079,221 A

Claims 1–20 relate to a refrigerator wherein a water tank and a heater are installed between a doorliner and a dispenser housing; claims 21–32 relate to a refrigerator wherein a water tank and a filter are installed between a doorliner and a dispenser housing; claims 33–36 relate to a refrigerator wherein a tube-type pipe is installed between a doorliner and a dispenser housing; claim 37 relates to a refrigerator wherein a water tank, a temperature sensor and a heater are installed between a doorliner and a dispenser housing; claim 38 relates to a method for manufacturing a refrigerator by installing a water tank and inserting foam between a doorliner and an outer portion of a refrigerator door; claim 39 relates to a side-by-side refrigerator wherein a water tank is installed on an insulation layer inside a barrier and a dispenser is installed inside a cooling chamber; claim 40 relates to a refrigerator wherein a water tank and a dispenser are installed inside the cooling chamber.

D1 relates to a refrigerator comprising a dispenser, a water purifying filter, a heater, a water tank, and a temperature sensor. D2 relates to a refrigerator wherein a water tank is installed between an outer portion of a refrigerator door and a doorliner. D3 relates to a refrigerator having a cooling pipe, which is bent several times, at an inner portion of a refrigerator door. D4 and D5 relate to a refrigerator having a dispenser, characterized in that a water tank is installed at an inner portion of a cooling chamber.

(Continued on Supplemental Sheet.)

Box No. VIII Certain observations on the international application

International application No.

PCT/KR2004/003075

					
The following observations on the clarity of the claims.	description.	and drawings or o	n the auestion	whether the	claims are fully

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

The description of the present application shows an inconsistency in the reference sign of the dispenser. That is to say, the reference sign of the dispenser is (7) in Fig. 1, but that of the dispenser is (9) in the description of Fig. 1 (see page 1).

International application No.

PCT/KR2004/003075

Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of:

Box V.

1. Novelty

None of D1 to D5 disclose the installation of a water tank or tube-type pipe, a heater and a filter inside a refrigerator door, as set forth in claims 1-38 of the present application, and the installation of a water tank and a dispenser inside a cooling chamber, as set forth in claims 39 and 40 of the present application. Therefore, claims 1-40 are considered to be novel under PCT Article 33(2).

2. Inventive Step

Claim 1 relates to a refrigerator wherein a water tank and a heater are installed between a doorliner and a dispenser housing; claim 3 adds a temperature sensor to claim 1; claim 21 relates to a refrigerator wherein a water tank and a filter is installed between a doorliner and a dispenser housing; claim 37 relates to a refrigerator wherein a water tank, a temperature sensor and a heater are installed between a doorliner and a dispenser housing. Claims 1, 3, 21 and 37 are considered to lack an inventive step in view of the combination of D1 and D2, and said combination is obvious to a person skilled in the art.

Claims 33 and 34 relate to a refrigerator having a dispenser in which a tube-type pipe is installed between a doorliner and a dispenser housing. Claims 33 and 34 are considered to lack an inventive step in view of the combination of D1 and D3, and said combination is considered to be obvious to a person skilled in the art.

Claim 38 relates to a method for manufacturing a refrigerator by installing a water tank between a doorliner and an outdoor and inserting foam between them, and having a dispenser. It would be obvious to a person skilled in the art to derive the method of claim 38 from the teaching of D2.

Therefore, claims 1, 3, 21, 33, 34, 37 and 38 are considered to lack an involve an inventive step under PCT Article 33(3).

3. Industrial Applicability

Claims 1-40 relate to a refrigerator having a dispenser. Therefore, said claims are considered to be industrially applicable under PCT Article 33(4).